

Section - A

Multiple Choice Questions (MCQ's)

Q-01: Choose the correct answer for each from the given option.

- (i) The center of gravity of a body is a point where acts.
 - (a) The torque
 - (b) The external force
 - (c) The weight of the body
 - (d) None of these
- (ii) Which of the following belong to the second kind of lever?
 - (a) Pair of scissor
 - (b) Pair of forceps
 - (c) Door
 - (d) Arm balance
- (iii) The waves produced by a vibrating body in air are waves.
 - (a) Longitudinal
 - (b) Transverse
 - (c) Electromagnetic
 - (d) Magnetic
- (iv) If $q = 4$ cm and $p = 2$ cm, then the magnification of the mirror is
 - (a) 2
 - (b) 0.5
 - (c) 4
 - (d) None of these
- (v) If the speed of body moving in circle is doubled its centripetal acceleration becomes.
 - (a) Twice
 - (b) Four time
 - (c) Eight time
 - (d) None of these
- (vi) The energy possessed by a body due to its position is called
 - (a) Kinetic energy
 - (b) Heat energy
 - (c) Potential energy
 - (d) None of these
- (vii) Elasticity of a substance depend on its
 - (a) Temperature
 - (b) Size
 - (c) Nature
 - (d) None of these
- (viii) The temperature of substance changes from 20°C to 20°C , what is the temperature change in Kelvin's scale?
 - (a) 100K
 - (b) 40K
 - (c) 293K
 - (d) None of these
- (ix) One meter is equal to
 - (a) 10^4 mm
 - (b) 10^3 mm
 - (c) 10^2 mm
 - (d) 10^6 mm
- (x) Dr. Abdus Salam was awarded Nobel Prize for the work on.....
 - (a) Electronics
 - (b) Radiation
 - (c) Grand unification theory
 - (d) Gravitation
- (xi) One meter is equal to
 - (a) 10^4 mm
 - (b) 10^3 mm
 - (c) 10^2 mm
 - (d) 10^6 mm
- (xii) is a scalar quantity.
 - (a) Torque
 - (b) Distance
 - (c) Momentum
 - (d) Acceleration
- (xiii) The unit of coefficient of friction is....
 - (a) Newton
 - (b) Kilogram
 - (c) Meter
 - (d) None of these
- (xiv) When a ray of light enters obliquely from rarer into a denser medium, then angle of refraction is Angle of incidence.
 - (a) Greater than
 - (b) Smaller than
 - (c) Equal to
 - (d) Unrelated to
- (xv) According to Hagen's waves theory. Light propagates in the shape of
 - (a) Photons
 - (b) Waves
 - (c) Particles
 - (d) None of these
- (xvi) The value of constant that occurs in coulombs force formula is Nm^2/C^2
 - (a) 9×10^{-9}
 - (b) 9.0×10^{-16}
 - (c) 9.0×10^9
 - (d) 9.9×10^{-9}
- (xvii) A galvanometer can be converted into an ammeter by connecting a wire of low resistance with the galvanometer.
 - (a) To series
 - (b) To parallel
 - (c) In a combined way
 - (d) In no way